

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT

APPLICANTS:

Dieter RITTER

CONFIRMATION NO.: 6358

SERIAL NO.:

10/824,225

GROUP ART UNIT: 2882

FILED:

April 14, 2004

TITLE:

"X-RAY APPARATUS AND METHOD TO PRODUCE A

SURFACE IMAGE"

MAIL STOP DD

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

SIR:

In accordance with the provisions of 37 C.F.R. § 1.56, Applicant requests that citation and examination of the following documents be made during the course of examination of the above-referenced application for United States Letters Patent.

AA United States Patent No. 6,491,430

AB United States Patent No. 6,229,873

AC United States Patent No. 5,923,727

AL German PS 100 15 824

AM German OS 40 21 102

AU "A Simple and Flexible Calibration Method For Range Sensors,"

Blossey et al, Int. Conf. Of The ICO (April 1994), page 62

AV "Laser Triangulation: Fundamental Uncertainty in Distance Measurement," Dorsch et al, Applied Optics, Vol. 33, No. 7 (March 1994), pages 1306-1314

AW "Three-Dimensional Sensing of Rough Surfaces by C oherence Radar," Dresel et al, Applied Optics, Vol. 31, No. 7 (March 1992), pages 919-925.

- AX "Acquisition of 3-D Data by Focus Sensing," Engelhardt et al, Applied Optics, Vol. 27, No. 22 (November 1988), pages 4684-4689
- AY "Simple, Robust and Accurate Phase-Measuring Triangulation," Gruber et al, Optik, Vol. 89, No. 3 (1992) pages 113-122.
- AZ "Light Sectioning With Large Depth and High Resolution," Häusler et al, Applied Optics, Vol. 27, No. 4 (December 1988), pages 5165-5169.
- AV' "Parallel Three-Dimensional Sensing by Color-Coded Triangulation," Häusler et al., Applied Optics, Vol. 32, No. 35 (December 1993), pages 7164-7169.
- AW' "Optische 3D-Sensoren und Deren Industrielle Anwendung," Blossey et al., Messtec, 1/96 (March 1996), pages 24-26.
- AX' "Acquisition of Three-Dimensional Image Data by a Scanning Laser Range Finder," Moring et al, Opt. Eng., Vol. 28, No. 8 (1989) pages 897-902.

EXPLANATION OF RELEVANCE

The German counterpart to Reference AA, together with References AB, AC, AL and AM were cited by the German Patent and Trademark Office in connection with the counterpart German application.

Reference AC and References AU through AW' were identified and discussed in the present specification, and Applicant stands by the statements in the specification concerning the teachings of these references.

Copies of the above References together with Form 1449 (two sheets) are submitted herewith.

Complete translations of References AL and AM are not readily available to the Applicant, however, each of those references has an English language abstract attached thereto.

An English translation of Reference AV' is not readily available to the Applicant. That reference provides an overview of the use of optical 3D sensors for various industrial uses.

As of the date of mailing of this Information Disclosure Statement, a first Office Action on the merits has not been received in connection with this application. This Information Disclosure Statement is therefore in compliance with 37 C.F.R. §1.97(b)(3), and no fee is necessary.

All claims of the application are submitted to be patentable over the teachings of the above references, taken singly or in combination. Early consideration of the application is therefore respectfully requested.

Submitted by,

(Reg. 28,98

SCHIFF, HARDIN LLP, CUSTOMER NO. 26574

Patent Department, 6600 Sears Tower 233 South Wacker Drive Chicago, Illinois 60606 Telephone: 312/258-5790

Attorneys for Applicant.

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450 on August 17, 2004.

STEVEN H NOLL

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Sheet 1 of 2 Docket No. Serial No. P04,0101 10/824,225 Applicant INFORMATION DISCLOSURE CITATION IN AN APPLICATION Dieter RITTER Group Art Unit (use several sheets if necessary) Filing Date 2882 April 14, 2004 U.S. PATENT DOCUMENTS Examiner's Filing Date If Document Number Subclass Date Name Class Initials appropriate 6,491,430 12/10/02 AA Seissler 05/08/01 Bani-Hashemi etal. AB 6,229,873 07/13/99 $\overline{\mathsf{AC}}$ 5,923,727 Navab AD ΑE AF AG AH ΑI AJ AK FOREIGN PATENT DOCUMENTS Translation Class Document Number Date Country Subclass Yes No AL 100 15 824 11/21/02 Germany 01/17/91 AM 40 21 102 Germany AN AO AP AO OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.) AT "A Simple and Flexible Calibration Method For Range Sensors," Blossey et al, Int. Conf. AU Of The ICO (April 1994), page 62 "Laser Triangulation: Fundamental Uncertainty in Distance Measurement," Dorsch et al, $\overline{\mathsf{AV}}$ Applied Optics, Vol. 33, No. 7 (March 1994), pages 1306-1314 "Three-Dimensional Sensing of Rough Surfaces by C oherence Radar," Dresel et al, AW Applied Optics, Vol. 31, No. 7 (March 1992), pages 919-925. AX "Acquisition of 3-D Data by Focus Sensing," Engelhardt et al, Applied Optics, Vol. 27, No. 22 (November 1988), pages 4684-4689 "Simple, Robust and Accurate Phase-Measuring Triangulation," Gruber et al, Optik, Vol. AY 89, No. 3 (1992) pages 113-122. "Light Sectioning With Large Depth and High Resolution," Häusler et al, Applied Optics, \overline{AZ} Vol. 27, No. 4 (December 1988), pages 5165-5169. Date Considered Examiner

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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INFORMATION DISCLOSURE CITATION IN AN APPLICATION

(use several sheets if necessary)

| | Docket No. | Serial No. |
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| | P04,0101 | 10/824,225 |
| | Applicant | |
| | Dieter RITTER | |
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U.S. PATENT DOCUMENTS

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